CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/CEMENT/2016-17 Date: 20.11.2016

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Cement – Sample 2
Sample Received on	:	16.11.2016
Period of Testing	:	16.11.2016 to 20.11.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/SAND-Gradation/2016-17 20.11.2016

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of Work	: Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	: Fine Aggregates – Sample 2
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 16.11.2016
Date of Testing	: 20.11.2016

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.50	90-100	90-100	90-100	95-100
2.36	79.30	60-95	75-100	85-100	95-100
1.18	53.50	30-70	55-90	75-100	90-100
600 Micron	27.20	15-34	35-59	60-79	80-100
300 Micron	12.70	5-20	8-30	12-40	15-50
150 Micron	3.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/AGG/GR/2016-17 20.11.2016

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Coarse Aggregates (40mm) – Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2016)
Sample Received on	:	16.11.2016
Date of Testing	:	20.11.2016

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2016)	
		Graded	Single Sized
80	100	100 -	-
63	100	-	100
40	97.50	95-100	85-100
20	37.90	30-70	0-20
10	17.60	10-35	0-5
4.75	3.20	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.06/Steel/2016-17 20.11.2016

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.11.2016

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	510	512	13.30	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/Cube/2016-17

29.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.01.2017	29.01.2017	8.142	478.5	21.27
2	01.01.2017	29.01.2017	8.253	502.3	22.32
3	01.01.2017	29.01.2017	8.398	528.4	23.48

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29.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.01.2017	29.01.2017	8.142	478.3	21.26
2	01.01.2017	29.01.2017	8.235	496.5	22.07
3	01.01.2017	29.01.2017	8.321	510.4	22.68

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Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/Cube/2016-17 29.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.01.2017	29.01.2017	8.236	529.8	23.55
2	01.01.2017	29.01.2017	8.120	510.3	22.68
3	01.01.2017	29.01.2017	8.063	502.2	22.32

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Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/Cube/2016-17 02.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.01.2017	02.02.2017	8.298	480.5	21.36
2	05.01.2017	02.02.2017	8.415	523.6	23.27
3	05.01.2017	02.02.2017	8.397	498.7	22.16

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02.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.01.2017	02.02.2017	8.120	475.5	21.13
2	05.01.2017	02.02.2017	8.234	485.6	21.58
3	05.01.2017	02.02.2017	8.328	506.4	22.51

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Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/Cube/2016-17 07.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2017	07.02.2017	8.154	478.2	21.25
2	10.01.2017	07.02.2017	8.295	498.2	22.14
3	10.01.2017	07.02.2017	8.320	532.6	23.67

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2017	07.02.2017	8.125	478.2	21.25
2	10.01.2017	07.02.2017	8.243	493.5	21.93
3	10.01.2017	07.02.2017	8.316	513.6	22.83

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Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/Cube/2016-17 07.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2017	07.02.2017	8.145	480.5	21.36
2	10.01.2017	07.02.2017	8.265	498.5	22.16
3	10.01.2017	07.02.2017	8.395	518.4	23.04

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Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/Cube/2016-17 12.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at Thanisandra Gramatana and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/146/2016-17 Dated: 09.11.2016
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.01.2017	12.02.2017	8.485	528.9	23.51
2	15.01.2017	12.02.2017	8.365	514.7	22.88
3	15.01.2017	12.02.2017	8.210	502.3	22.32

*Information is furnished by the Customer/Representative.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.06/CSR-11/195d/Cube/2016-17 12.02.2017

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.01.2017	12.02.2017	8.158	485.5	21.58
2	15.01.2017	12.02.2017	8.296	502.3	22.32
3	15.01.2017	12.02.2017	8.396	522.1	23.20

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.01.2017	12.02.2017	8.256	493.8	21.95
2	15.01.2017	12.02.2017	8.475	515.7	22.92
3	15.01.2017	12.02.2017	8.312	506.6	22.52

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